

LEGEND

- ① ITEM 204 - SUBGRADE COMPACTION
- ② ITEM 304 - 6" AGGREGATE BASE
- ③ ITEM 301 - 4" ASPHALT CONCRETE BASE, PG64-22, (449)
- ④ ITEM 407 - TACK COAT (ESTIMATED AT 0.055 GAL/SY)
- ⑤ ITEM 441 - 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22

- ⑥ ITEM 601 - CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN
- ⑦ ITEM 607 - GUARDRAIL, MISC.: STEEL BACKED TIMBER GUARDRAIL, TYPE A (REFER TO SHEET 6A AND 6B/20, USE SHORT GUARDRAIL POST SECTION FOR POSTS OVER CULVERT)
- ⑧ ITEM 606 - FENCE, MISC.: TIMBER RAILING
- ⑨ ITEM 659 - SEEDING AND MULCHING

TYPICAL SECTION

DESIGN AGENCY



DESIGNER
JG/JDA

REVIEWER
CJS 03/02/23

PROJECT ID
118538

| | |
|-------|-------|
| SHEET | TOTAL |
| 2 | 20 |

SHEET NUM.

PART.
01/NFA/10

ITEM
EXT

ITEM
EXT

GRAND
TOTAL

UNIT

DESCRIPTION

SEE SHEET
NO.

ROADWAY

| | | | | | | |
|-----|-----|-------|-----|----|-----------------------|--|
| LS | 201 | 11000 | LS | | CLEARING AND GRUBBING | |
| 63 | 202 | 23000 | 63 | SY | PAVEMENT REMOVED | |
| 67 | 203 | 10000 | 67 | CY | EXCAVATION | |
| 193 | 204 | 10000 | 193 | SY | SUBGRADE COMPACTION | |

| | | | | | | |
|----|-----|-------|----|------|---|----|
| 53 | 601 | 20001 | 53 | SY | CNUSHED AGGREGATE STONE PROTECTION, AS PER PLAN | 4 |
| 60 | 606 | 98000 | 60 | FT | GUARDRAIL, MISC.:STEEL BACKED TIMBER GUARDRAIL TYPE A | 6A |
| 2 | 606 | 98100 | 2 | EACH | GUARDRAIL, MISC.:STEEL BACKED TIMBER GUARDRAIL TERMINAL | 6B |
| 71 | 607 | 98000 | 71 | FT | FENCE, MISC.:TIMBER GUARDRAIL | 6 |

EROSION CONTROL

| | | | | | | |
|-------|-----|-------|-------|------|-----------------------------|--|
| 12 | 659 | 00300 | 12 | CY | TOPSOIL | |
| 112 | 659 | 10000 | 112 | SY | SEEDING AND MULCHING | |
| 6 | 659 | 14000 | 6 | SY | REPAIR SEEDING AND MULCHING | |
| 0.02 | 659 | 20000 | 0.02 | TON | COMMERCIAL FERTILIZER | |
| 0.02 | 659 | 31000 | 0.02 | ACRE | LIME | |
| 0.6 | 659 | 35000 | 0.6 | MGAL | WATER | |
| 3,500 | 832 | 30000 | 3,500 | EACH | EROSION CONTROL | |

PAVEMENT

| | | | | | | |
|----|-----|-------|----|-----|---|--|
| 17 | 301 | 56000 | 17 | CY | ASPHALT CONCRETE BASE, PG64-22, (449) | |
| 32 | 304 | 20000 | 32 | CY | AGGREGATE BASE | |
| 8 | 407 | 10000 | 8 | GAL | TACK COAT | |
| 5 | 441 | 70000 | 5 | CY | ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 | |

TRAFFIC CONTROL

| | | | | | | |
|------|-----|-------|------|------|---------------|--|
| 0.04 | 643 | 00100 | 0.04 | MILE | EDGE LINE, 4" | |
| 0.02 | 643 | 00300 | 0.02 | MILE | CENTER LINE | |

STRUCTURE 20 FOOT SPAN AND UNDER (SFN 2830012) SEE SHEET 10 OF 20

INCIDENTALS

| | | | | | | |
|----|-----|-------|----|--|---|--|
| LS | 108 | 30000 | LS | | CPM PROGRESS SCHEDULE SHORT DURATION PROJECTS | |
| LS | 614 | 11000 | LS | | MAINTAINING TRAFFIC | |
| LS | 623 | 10000 | LS | | CONSTRUCTION LAYOUT STAKES AND SURVEYING | |
| LS | 624 | 10000 | LS | | MOBILIZATION | |



GENERAL SUMMARY

DESIGN AGENCY



DESIGNER
VS

REVIEWER
JDA 06/01/23

PROJECT ID
118538

| | |
|-------|-------|
| SHEET | TOTAL |
| 3 | 20 |



GENERAL:

THE PROJECT INCLUDES THE REPLACEMENT OF THE EXISTING ROADWAY BRIDGE AND BRIDLE TRAIL BRIDGES IN GEAUGA PARK, GEAUGA COUNTY. THE PROJECT IS TO BE PERFORMED IN ACCORDANCE WITH THE PLANS AND THE FOLLOWING SPECIFICATIONS.

UTILITIES:

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

FIRST ENERGY/CEI
6896 MILLER RD.
BRECKSVILLE, OH 44141
ATTN: JOHN ZASSICK
PHONE: 440-546-8706
EMAIL: JMZASSICK@FIRSTENERGYCORP.COM

WINDSTREAM
100 OWEN BROWN ST.
HUDSON, OH 44236
ATTN: BRIAN VINSON
PHONE: 330-467-5341
EMAIL: BRIAN.VINSON@WINDSTREAM.COM

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

EXISTING STRUCTURE PLANS:

EXISTING PLANS MAY BE EXAMINED AT THE GEAUGA PARK DISTRICT OFFICE, 9160 ROBINSON ROAD, CHARDON, OH 44024, PHONE: 440-286-9516.

WORK LIMITS:

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

SURVEYING PARAMETERS:

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: HIGH EPOCH GNSS POSITIONING
MONUMENT TYPE: B – 5/8" X 30" REBAR WITH PLASTIC CAP STAMPED "DLZ TRAVERSE"

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88
GEOID: GEOID 18

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83(2011) (EPOCH 2010.0)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC 2 STANDARD PARALLEL
COORDINATE SYSTEM: OHIO STATE PLANE NORTH NAD83(2011)
COMBINED SCALE FACTOR: 1.000000
ORIGIN OF COORDINATE SYSTEM: 0,0

SURVEYING PARAMETERS (CONT.):

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

CLEARING AND GRUBBING:

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE ESTIMATED QUANTITIES FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

ITEM 601 - CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN:

THE CRUSHED MATERIAL PROVIDED FOR THIS ITEM SHALL BE SANDSTONE 1 & 2 BERM MATERIAL.

ITEM 614 - MAINTAINING TRAFFIC (ROAD CLOSED):

THE CONTRACTOR SHALL ADEQUATELY SIGN A PEDESTRIAN DETOUR ROUTE AND MAINTAIN ALL DETOUR SIGNAGE AND ADVANCE WARNING SIGNAGE THROUGHOUT THE DURATION OF THE PROJECT. THE EXISTING BRIDLE PATH BRIDGE SHALL BE TEMPORARILY MOVED DOWNSTREAM TO A LOCATION DESIGNATED BY THE ENGINEER LOCATED BETWEEN 25 FEET AND 50 FEET FROM ITS ORIGINAL LOCATION. RELOCATION OF THIS BRIDGE SHALL BE PAID FOR SEPERATELY.

THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN STANDARD "ROAD CLOSED" SIGNS AT THE NEAREST INTERSECTIONS, SIGN SUPPORTS, BARRICADES, GATES, AND LIGHTS AS DETAILED IN ODOT STANDARD DRAWING MT-101.60 AT BOTH ENDS OF THE PROJECT DURING THE PERIOD IN WHICH THE ROAD IS CLOSED TO TRAFFIC. THE CONTRACTOR SHALL ALSO PLACE AND MAINTAIN THE THREE SIGNS LEADING IN TO BOTH ENDS OF THE PROJECT PER ODOT STANDARD DRAWING MT-101.60.

THE CONTRACTOR SHALL ADVISE THE GEAUGA PARK DISTRICT OFFICE A MINIMUM OF FOURTEEN (14) CALENDAR DAYS IN ADVANCE OF WHEN THE CLOSURE WILL BE IN EFFECT. THE DURATION OF THE ROAD CLOSURE IS NOT TO EXCEED ONE HUNDRED TWENTY (120) CALENDAR DAYS. LIQUIDATED DAMAGES WILL BE ASSESSED AS PER ODOT CMS 108.07.

ACCESS TO THE WEST WOODS SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR THE TIME NEEDED TO TEMPORARILY OCCUPY THE PROPERTY, WHICH SHALL BE LESS THAN THE TIME NEEDED FOR CONSTRUCTION OF THE PROJECT.

TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED ALONG PROPOSED CONSTRUCTION LIMITS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES TO PROTECT THE SECTION 4(F) PROPERTY AND THE PUBLIC.

APPROPRIATE SIGNAGE SHALL BE INSTALLED TO ALERT USERS OF THE WEST WOODS OF CONSTRUCTION ACTIVITIES, ACCESS RESTRICTIONS OR CLOSURES, AND TO DIRECT USERS TO SECONDARY ACCESS POINTS.

THE CONTRACTOR SHALL BE REQUIRED TO CLOSELY COORDINATE THE CONSTRUCTION SCHEDULE WITH ODOT AND GEAUGA PARK DISTRICT PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ODOT CMS 614, OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD).

SEEDING AND MULCHING:

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

SEEDING AND MULCHING (CONT.):

| | |
|--|-----------|
| ITEM 659 - TOPSOIL | 12 CY |
| ITEM 659 - SEEDING AND MULCHING | 112 SY |
| ITEM 659 - REPAIR SEEDING AND MULCHING | 6 SY |
| ITEM 659 - COMMERCIAL FERTILIZER | 0.02 TON |
| ITEM 659 - LIME | 0.02 ACRE |
| ITEM 659 - WATER | 0.6 MGAL |

APPLY SEEDING AND MULCHING TO ALL AREAS OF EXPOSED SOIL ON NEW EMBANKMENTS WITHIN THE CONSTRUCTION LIMITS. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

ENVIRONMENTAL:

THE FOLLOWING ENVIRONMENTAL COMMITMENTS SHALL BE IMPLEMENTED PRIOR TO OR DURING CONSTRUCTION OF THE PROJECT:

BROOK TROUT:

THE STREAM HAS A NATIVE BREEDING OF BROOK TROUT. IN-WATER-WORK RESTRICTION PERIODS TO BE APPLIED BETWEEN JANUARY 1 - JUNE 15 AND SEPTEMBER 15 - DECEMBER 15.

ASBESTOS:

A CERTIFIED ASBESTOS HAZARD EVALUATION SPECIALIST SURVEYED THE BRIDGE STRUCTURE SCHEDULED FOR DEMOLITION AND/OR REHABILITATION; THE SURVEY DETERMINED THAT NO ASBESTOS IS PRESENT ON THE BRIDGE STRUCTURE.

ODOT SHALL PROVIDE A COPY OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NOTIFICATION OF DEMOLITION AND RENOVATION FORM, PARTIALLY COMPLETED AND SIGNED BY THE BRIDGE OWNER, TO THE SUCCESSFUL BIDDER. THE CONTRACTOR SHALL COMPLETE THE FORM AND SUBMIT IT TO ONE OF THE ADDRESSES BELOW AT LEAST TEN (10) WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION AND/OR REMOVATION.

ASBESTOS PROGRAM
OHIO EPA, DAPC
P.O. BOX 1049
COLUMBUS, OH 43216-1049

OR

ASBESTOS PROGRAM
OHIO EPA, DAPC
50 W. TOWN ST., SUITE 700
COLUMBUS, OH 43215

THE CONTRACTOR SHALL PROVIDE A COPY OF THE COMPLETED FORM TO THE ENGINEER AT LEAST TEN (10) WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION AND/OR RENOVATION. THE FORM SHALL INCLUDE: 1) THE CONTRACTOR'S NAME AND ADDRESS, 2) THE SCHEDULED DATES FOR THE START AND COMPLETION OF THE BRIDGE REMOVAL AND 3) A DESCRIPTION OF THE PLANNED DEMOLITION WORK AND THE METHOD(S) TO BE USED. COPIES OF THE OEPA FORM AND BRIDGE INSPECTION REPORTS ARE AVAILABLE FOR REVIEW AT THE ODOT DISTRICT 12 OFFICE, 5500 TRANSPORTATION BOULEVARD, GARFIELD HEIGHTS, OHIO 44125.

BASIS FOR PAYMENT: THE CONTRACTOR SHALL FURNISH ALL FEES, LABOR, AND MATERIALS NECESSARY TO COMPLETE AND SUBMIT THE OEPA NOTIFICATION FORM. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN: ITEM 202 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN.

DESIGN AGENCY



DESIGNER

JG/VS

REVIEWER

CJS 03/02/23

PROJECT ID

118538

SHEET TOTAL

4 | 20

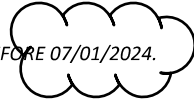
ENVIRONMENTAL (CONT.):

TREE REMOVAL:

NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO FEDERALLY AND STATE LISTED BAT SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. FOR THE PURPOSE OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

BEGIN DATE:

ALL WORK FOR THIS PROJECT SHALL NOT BEGIN BEFORE 07/01/2024.



DESIGN AGENCY



DESIGNER

VS

REVIEWER

MJL 10/25/23

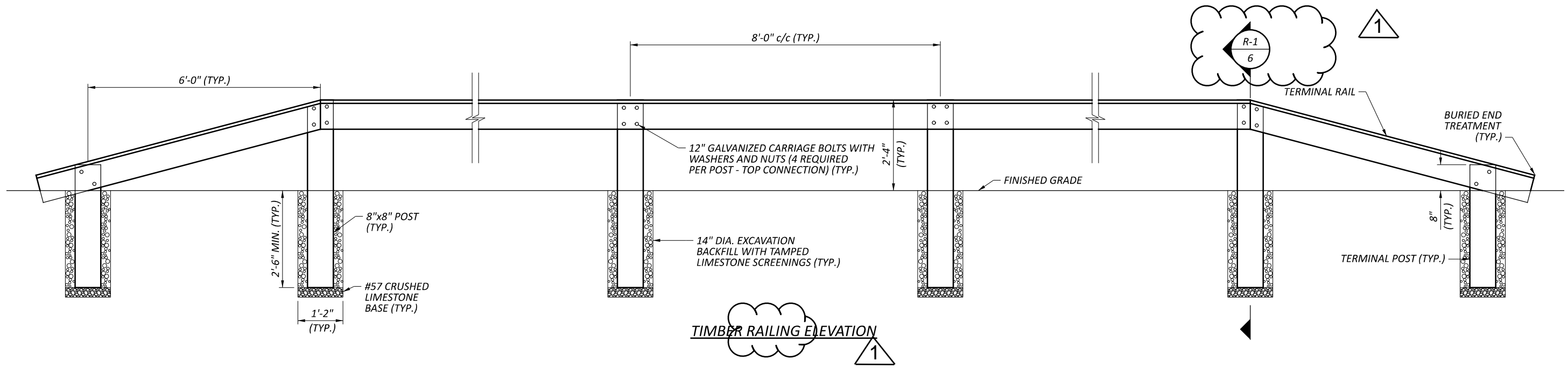
PROJECT ID

118538

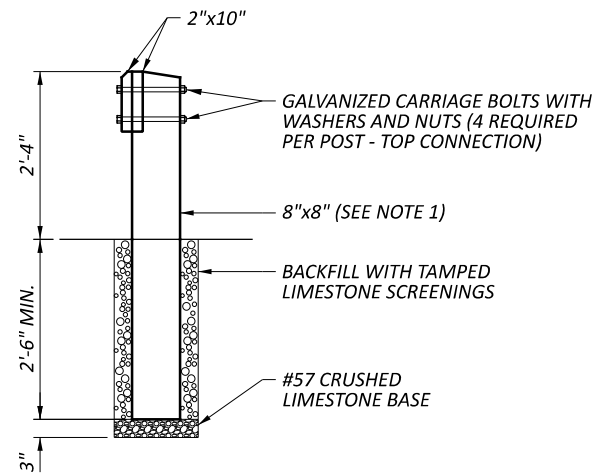
SHEET TOTAL

5 | 20





TIMBER RAILING ELEVATION



SECTION

NOTES

1. ALL TIMBER SHALL BE CCA PRESSURE TREATED SOUTHERN YELLOW PINE.
2. CONTRACTOR SHALL HAND DIG POST HOLES OVER TOP OF PRECAST CULVERT.

TIMBER RAILING DETAILS

DESIGN AGENCY

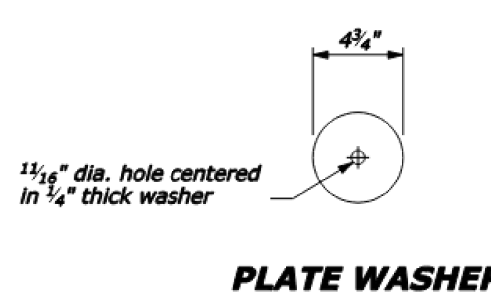
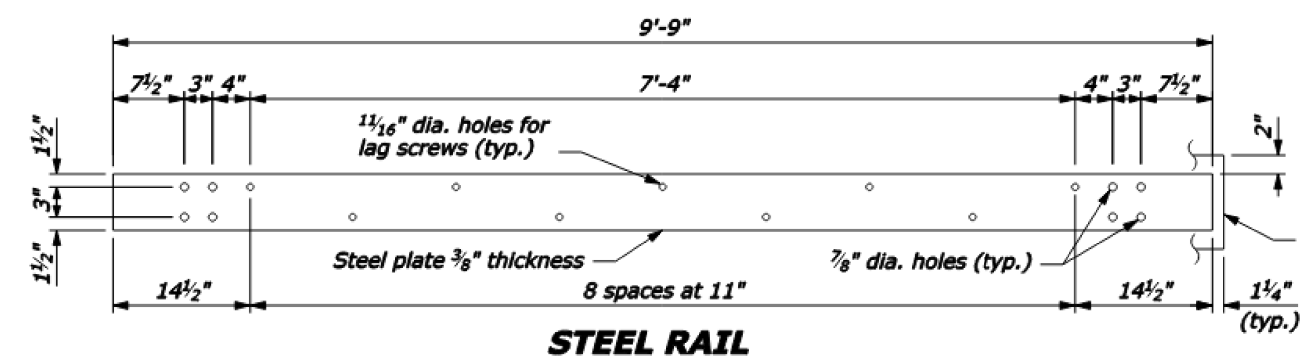


DESIGNER VS

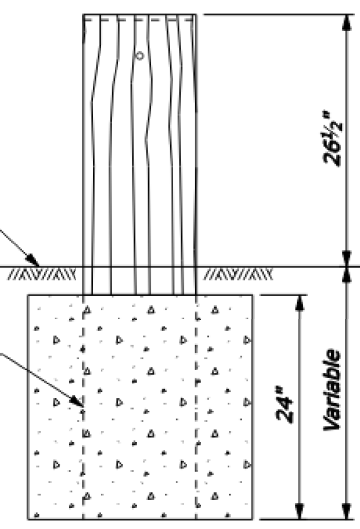
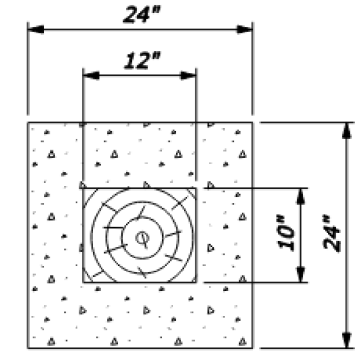
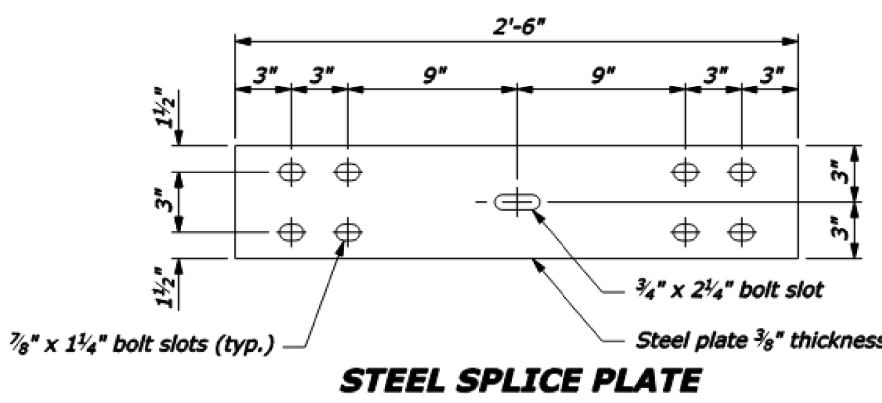
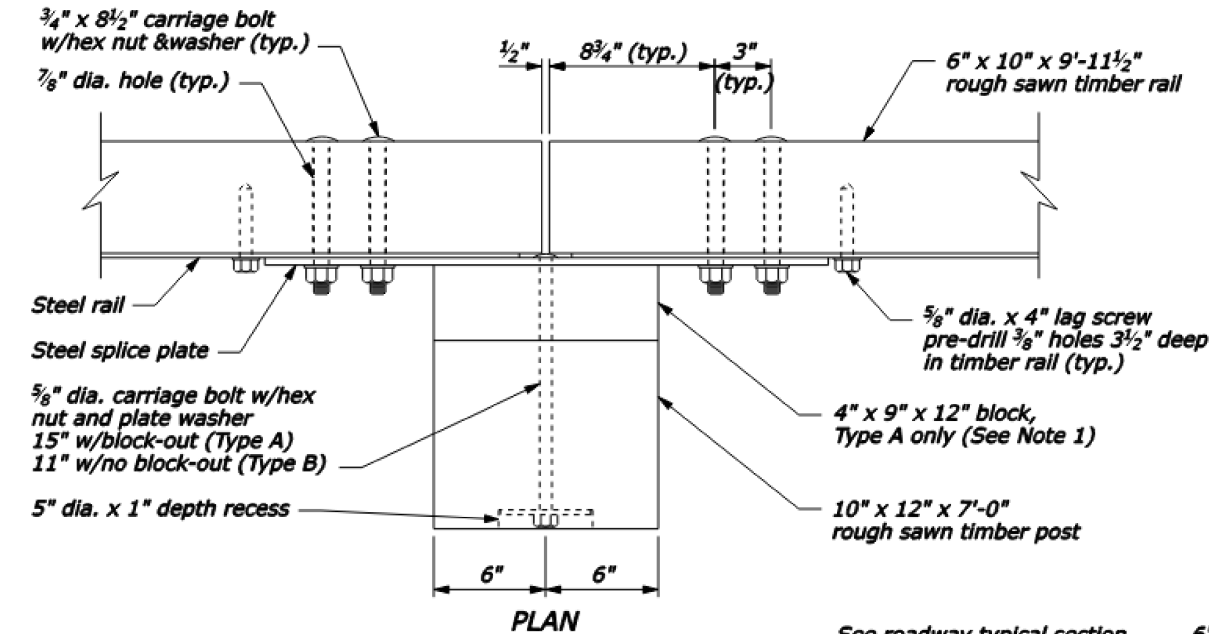
REVIEWER JDA 06/01/23

PROJECT ID 118538

| | |
|-------|-------|
| SHEET | TOTAL |
| 6 | 20 |

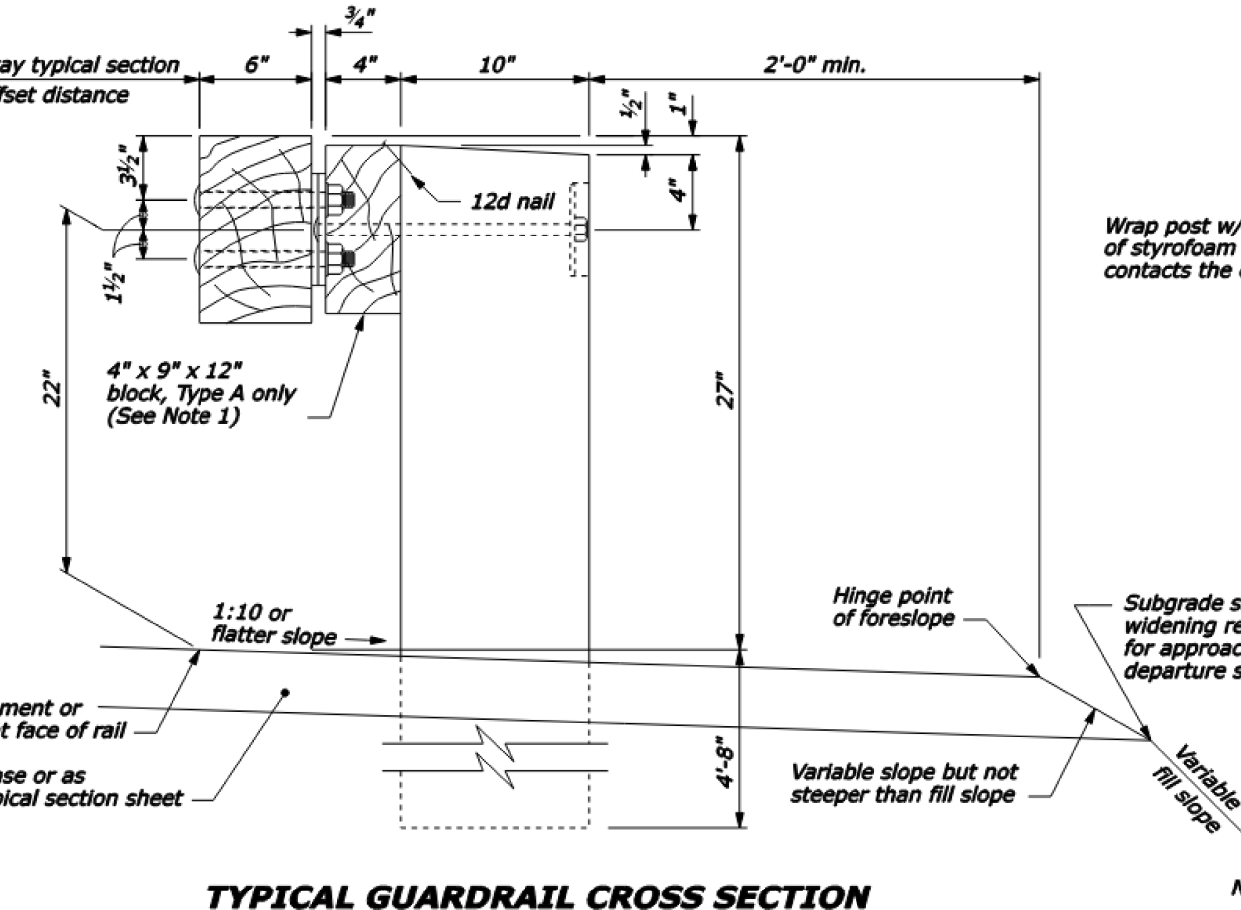
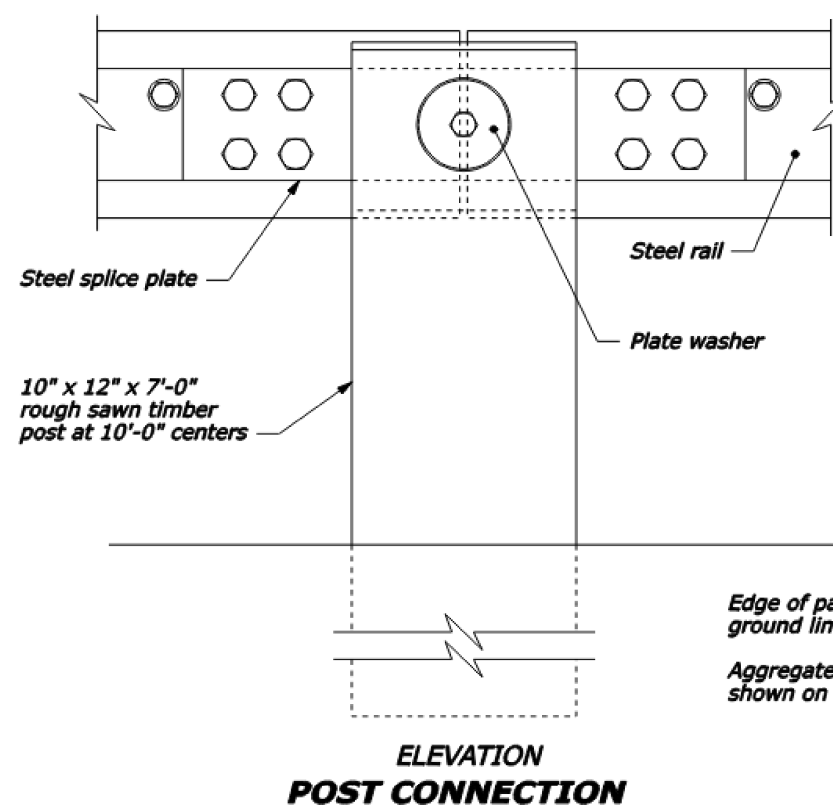


- NOTE:**
1. Use the Type A, blocked-out, system or the Type B, non-blocked-out, system as specified in the plans.
 2. Use weathering steel for all structural steel and fastener hardware as specified.
 3. Place a terminal section (See Standards 617-61 and 617-62) on both approach and trailing ends of barrier installations.



24" dia. round anchor is an acceptable alternative. Reduced size acceptable in solid rock.

CONCRETE ANCHOR FOR SHORT GUARDRAIL POST



NO SCALE

| | |
|--|-----------------|
| U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY | |
| U.S. CUSTOMARY STANDARD | |
| STEEL-BACKED TIMBER GUARDRAIL TYPE A & TYPE B | |
| STANDARD APPROVED FOR USE 3/1990 | STANDARD 617-60 |
| REVISED: 4/1994 6/2005 | |

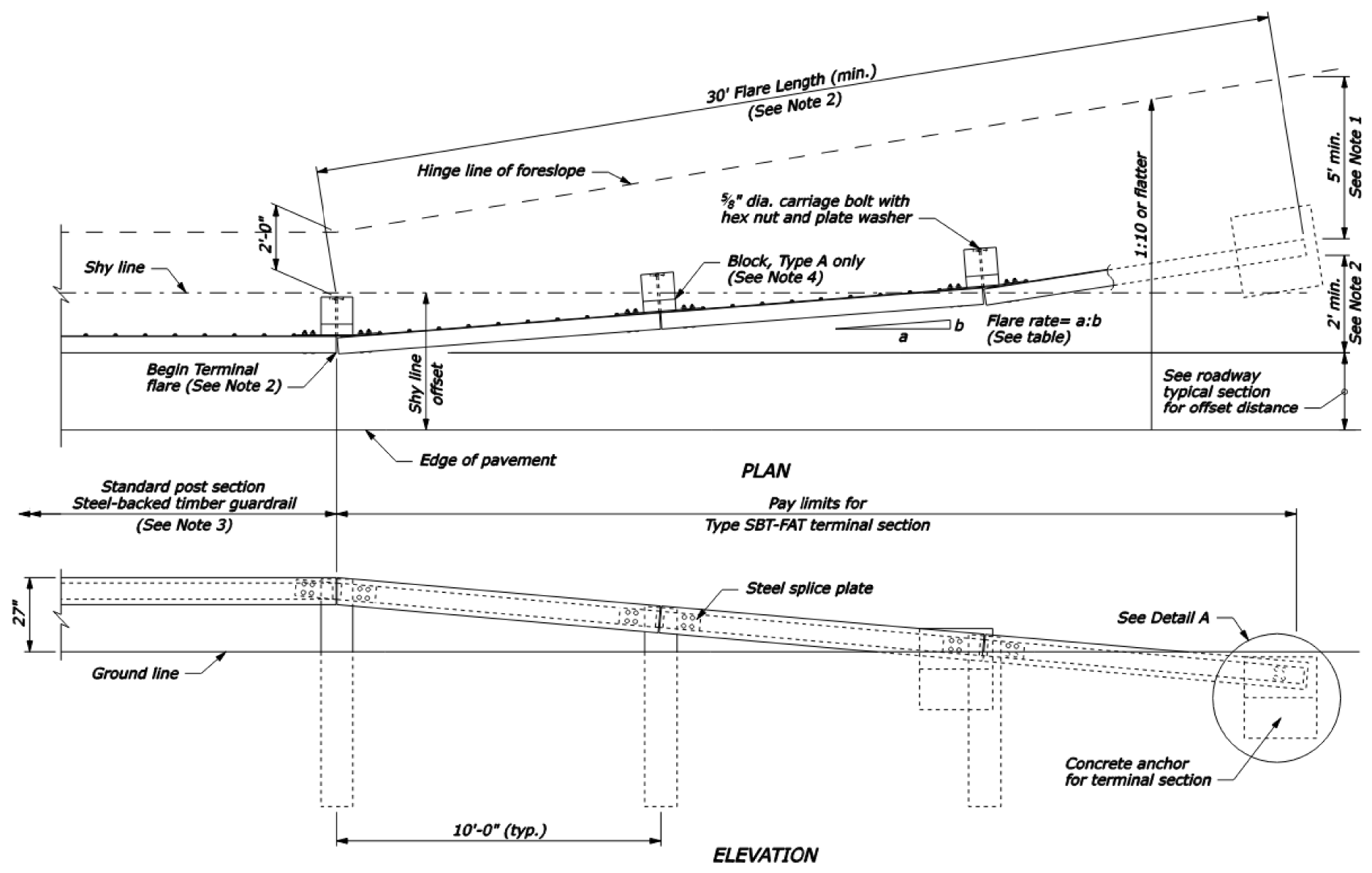
| | |
|---------------|--------------|
| DESIGN AGENCY | DLZ |
| DESIGNER | JG |
| REVIEWER | XXX XX/XX/24 |
| PROJECT ID | 118538 |
| SHEET | TOTAL |
| 6A | 20 |

GEA-WEST WOODS ROAD REPLACE
MODEL: Sheet_SurvF1 PAPER SIZE: 17x11 (in.) DATE: 3/28/2024 TIME: 12:09:41 PM USER: zquo
X:\Projects\2021\1212101200 Geauga Park WW Bn118538\40P-Engineering\Roadway\Sheets\118538_GRO02.dgn

TIMBER GUARDRAIL DETAILS

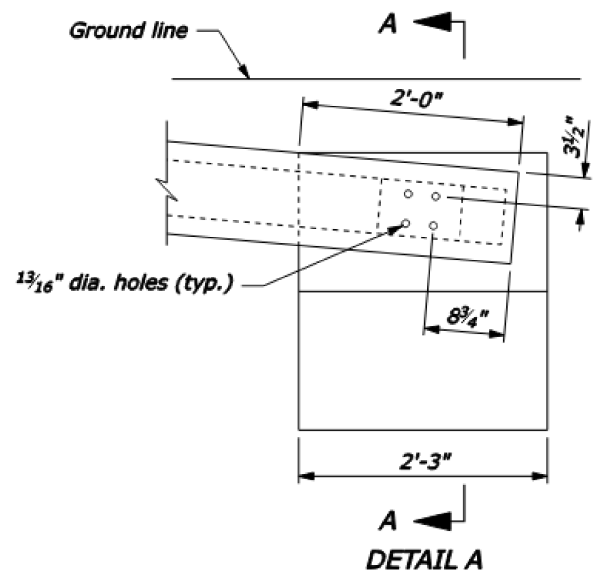
NOTE:

1. Extend the fill widening a minimum of 5 feet behind the guardrail, unless otherwise directed by the CO.
2. The guardrail flare shown in the plan view is the minimum length and rate required. As directed by the CO, flare the guardrail so that the terminal section is outside the clear zone. If the terminal section cannot be located outside the clear zone, it should be flared as far as practical from the road at the maximum rate indicated on the Guardrail Flare Rates table.
3. See Standard 617-60, Steel-Backed Timber Guardrail, Type SBTA and SBTB, for timber, structural steel, and hardware details.
4. On the Type A, blocked-out guardrail, include the blocks in terminal section, except on the concrete anchor. For the Type B, non-blocked-out guardrail, no blocks are included.

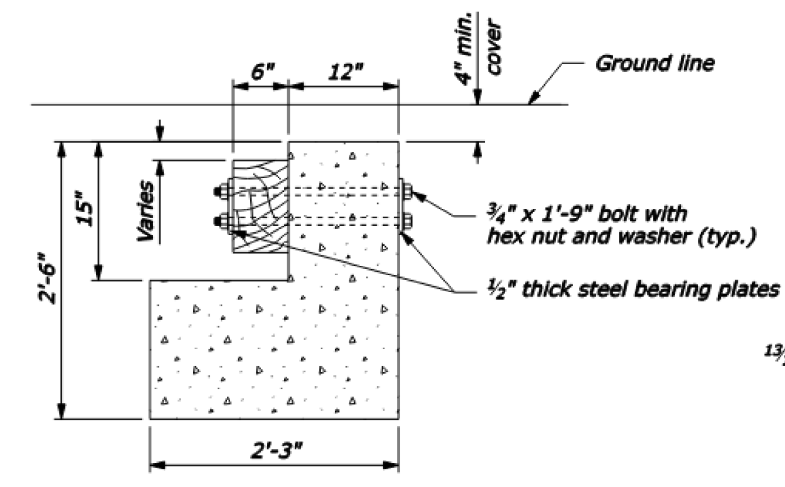


APPROACH & DEPARTURE FLARE WITH FLARED ANCHOR TERMINAL (FAT)

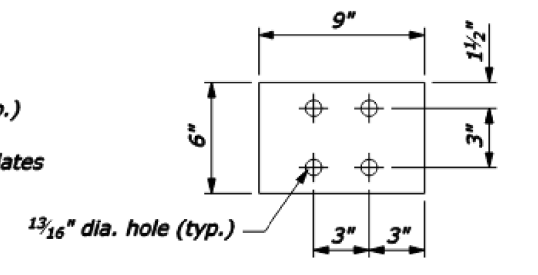
| Design Speed (mph) | Shy line offset (ft) | Flare rate inside shy line (a:b) | Flare rate outside shy line (a:b) |
|--------------------|----------------------|----------------------------------|-----------------------------------|
| 60 | 8.0 | 26:1 | 14:1 |
| 50 | 6.5 | 21:1 | 11:1 |
| 40 | 5.0 | 16:1 | 8:1 |
| 30 and less | 3.5 | 13:1 | 7:1 |



CONCRETE ANCHOR



SECTION A-A



STEEL BEARING PLATE

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
FEDERAL LANDS HIGHWAY

U.S. CUSTOMARY STANDARD
**STEEL-BACKED TIMBER GUARDRAIL
TERMINAL SECTION
TYPE SBT-FAT**

STANDARD APPROVED FOR USE 1/1990
REVISOR: 4/1994 6/2005
DATE: 6/2005

STANDARD 617-61

DESIGN AGENCY
DLZ

DESIGNER
JG

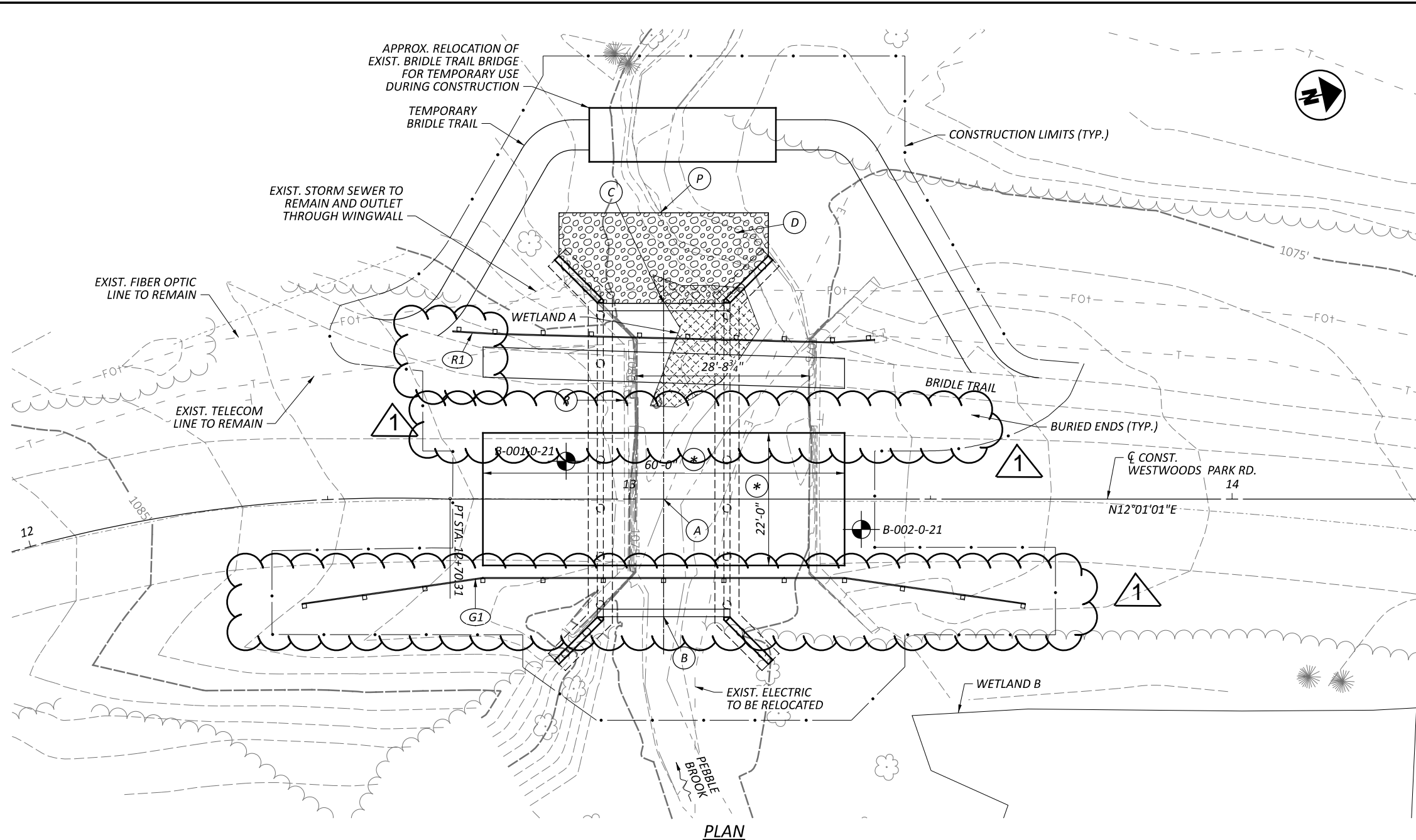
REVIEWER
XXX XX/XX/24

PROJECT ID
118538

SHEET TOTAL
6B 20

GEO-WEST WOODS ROAD REPLACE
MODEL: Sheet_SurvF1 PAPER SIZE: 17x11 (in.) DATE: 3/28/2024 TIME: 12:06:57 PM USER: zquo
X:\Projects\2024\12122101200 Geauga Park WW Br\118538\40-Engineering\Roadway\Sheets\118538_GR003.dgn

TIMBER GUARDRAIL TERMINAL DETAILS

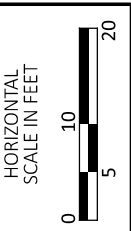


| BENCHMARK DATA | | |
|---|-------------|-------------------|
| BM #1 AN IRON PIN SET WITH DLZ CAP LOCATED APPROX. 308' NORTH OF PROP. CENTERLINE OF CULVERT ALONG CENTERLINE OF EXIST. ROAD, OFFSET APPROX. 21' WEST FROM THE EXIST. CENTERLINE OF ROAD, EL. 1080.70 | | |
| BM #2 STA. 13+72.65 | EL. 1077.69 | OFFSET 13.34, LT. |
| BM #3 STA. 11+38.95 | EL. 1090.49 | OFFSET 14.47, LT. |

| HYDRAULIC DATA | |
|------------------------------|-----------------------------|
| Q ₁₀ = 141 CFS | Q ₁₀₀ = 294 CFS |
| EXIST. STRUCTURES: | PROP. STRUCTURE: |
| V ₁₀ = 4.62 FPS | V ₁₀ = 3.06 FPS |
| HW ₁₀ = 1075.48 | HW ₁₀ = 1074.51 |
| V ₁₀₀ = 5.63 FPS | V ₁₀₀ = 5.03 FPS |
| HW ₁₀₀ = 1076.33 | HW ₁₀₀ = 1075.13 |
| DRAINAGE AREA = 0.38 SQ. MI. | |

| EXISTING STRUCTURES |
|--|
| TYPE: TWO SINGLE SPAN STEEL PONY TRUSS BRIDGES ON A SHARED ABUTMENT |
| SIZE: 31'(±) SPAN, 22'(±) WIDE ROADWAY BRIDGE & 8'(±) WIDE BRIDLE TRAIL BRIDGE |
| SFN: 2830008 |
| SKEW: NONE |
| ALIGNMENT: TANGENT |

| PROPOSED STRUCTURE |
|---|
| TYPE: 20' X 6' PRECAST CONCRETE THREE SIDED CULVERT |
| SKEW: NONE |
| ALIGNMENT: TANGENT |



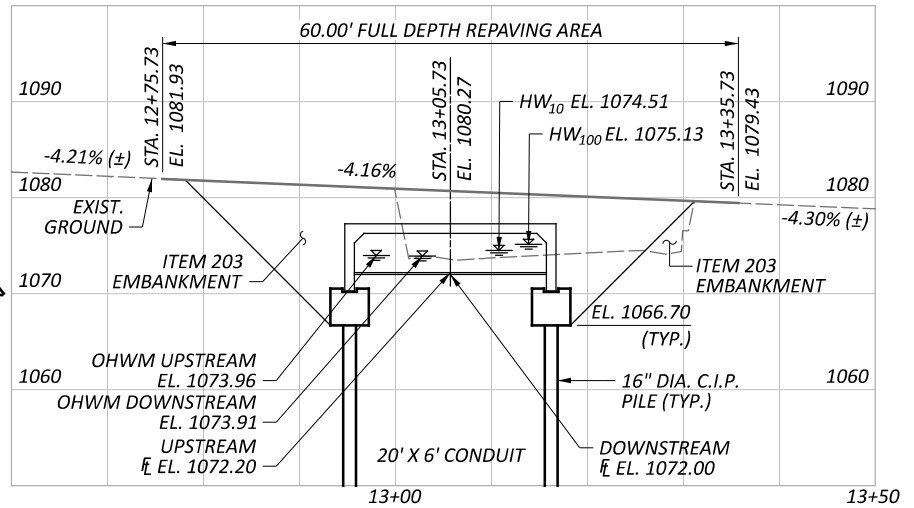
SITE PLAN
 BRIDGE NO. GEA-WOOD-0032
 OVER PEBBLE BROOK

- LEGEND**
- IMPACTED WETLAND AREA
 - PROJECT BORING LOCATION
 - STA. 13+05.73 \bar{C} CONST. WESTWOODS PARK RD. = \bar{C} PROP. BOX CULVERT
 - STA. 13+05.73, 19.50' RT. (INLET)
 - STA. 13+05.73, 32.50' LT. (OUTLET)
 - 15.0'L X 24.0'W X 2.0'D ROCK CHANNEL PROTECTION, TYPE C WITH FILTER
 - 12" DEEP FISH BARRIER
 - EXIST. SUPERSTRUCTURES & SUBSTRUCTURES TO BE REMOVED
 - LIMITS OF FULL DEPTH PAVEMENT REPLACEMENT

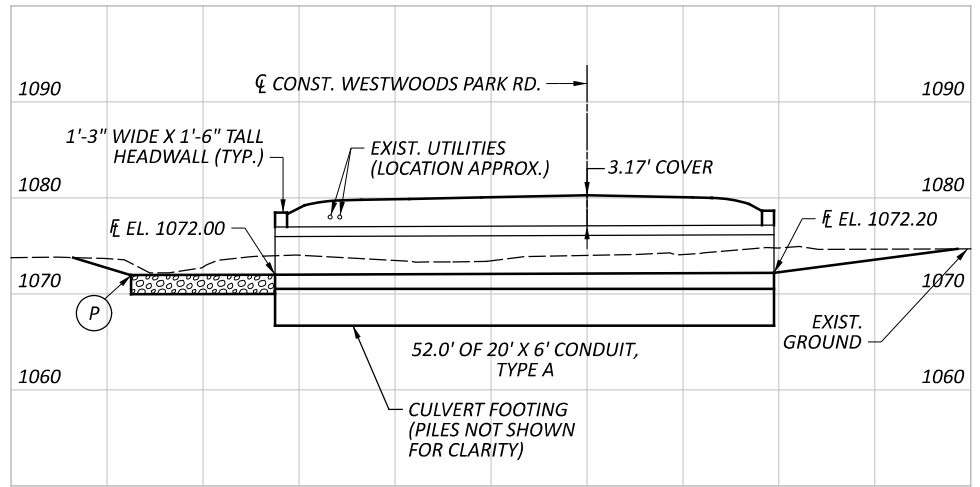
| ESTIMATED PAY LENGTHS | | |
|-----------------------|-----------------|--------|
| LOCATION | PILE TYPE | LENGTH |
| REAR FOOTING | 16" DIA. C.I.P. | 55' |
| FWD. FOOTING | 16" DIA. C.I.P. | 55' |

| GUARDRAIL AND RAILING QUANTITIES | | | |
|----------------------------------|----------|----------|----------|
| REF. NO. | STATION | LENGTH | |
| | FROM | TO | FT |
| R1 | 12+69.68 | 13+40.72 | 71.04 |
| G1 | 12+45.69 | 13+65.71 | 120.00 * |

*: TOTOAL LENGTH FOR STEEL BACKED TIMBER GUARDRAIL AND TWO TERMINAL SECTIONS. (SEE SHEET 6A & 6B/20)



PROFILE ALONG \bar{C} CONSTRUCTION



PROFILE ALONG \bar{C} CULVERT

| | |
|---------------|----------|
| SFN | 2830012 |
| DESIGN AGENCY | |
| | |
| DESIGNER | JDA |
| CHECKER | MJL |
| REVIEWER | |
| CJS | 11/22/23 |
| PROJECT ID | 118538 |
| SUBSET | TOTAL |
| 1 | 7 |
| SHEET | TOTAL |
| 7 | 20 |